

·	Application	n No.	Applicant(s)	
Notice of Allowability	10/821,576		LIN ET AL.	
	Examiner		Art Unit	
	Patrick G. V	Vamsley	2819	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.				
1. This communication is responsive to <u>an amendment filed on 03/24/2006</u> .				
2. The allowed claim(s) is/are <u>1-10 and 13-20</u> .				
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.				
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.				
 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 				
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.				
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/6 Paper No./Mail Date	6. (08), 7. 8.	☐ Notice of Informal P ☐ Interview Summary Paper No./Mail Da ☐ Examiner's Amendr ☑ Examiner's Stateme ☐ Other	(PTO-413), te ment/Comment	
		<i>,</i>		

REASONS FOR ALLOWANCE

Claims 1-10 and 13-20 are allowed.

The following is an examiner's statement of reasons for allowance: the references of record neither reveal nor render obvious the recited combination of combining multiple analog currents to provide a reduced harmonic content output signal derived from a digital input signal sampled and stored at different clock phases.

U.S. Patent 7,019,677 to Soman et al discloses current steering DACs with self-calibration. U.S. Patent 6,992,608 to Zhang et al shows a current steering DAC having cross-talk reduction. U.S. Patent 6,977,602 to Ostrem applies the same data to multiple DAC cores, staggered in phase. U.S. Patent 6,927,714 to Teterwak uses differential transistors with a current steering DAC. U.S. Patent 6,822,595 to Robinson couples a switch [50] to first [46] and second [48] DACs. U.S. Patent 6,639,534 to Khoini-Poorfard et al uses first [110] and second [130] DACs with switching circuitry. U.S. Patent 5,880,689 to Kushner operates a pair of DACs [11/12] operating 180° out-of-phase to cancel glitch energy.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick G. Wamsley whose telephone number is (571) 272-1814. The official facsimile number is (571) 273-8300. An alternate facsimile number, (571) 273-1814, should only be used for unofficial documents.

April 5, 2006